

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
BT1

DRILLING			OBJECTIVE			COLLAR SURVEY (AMG)							
Location	BROWNS TUNNEL		To test for continuation of mineralization up dip of that intersected in EAF6 & EAF9, and to correlate lithologies. RESULT Intersected minor Pb Zn mineralization in peperitic andesites up dip of EAF9, and identified overturned anticline.			AMG mN	5384644.4		Bearing	280.0			
Project	BURNS PEAK					AMG mE	377719.8		Dip	-46.0			
Prospect	BROWNS TUNNEL					mN			Hole Length	167.0			
Design By	PMQ					mE			DH Survey Type	eastman single shot			
Logged By	PMQ					RL	486.4						
Relogged													
Commenced	14 March 1996												
Completed	28 March 1996												
Drilled By	East Coast Drilling												
Drill Rig	LM38												
SIGNIFICANT CORE LOSS			POOR GROUND CONDITION ZONES										
HOLE SIZE			HOLE CONDITIONS AFTER COMPLETION										
From	To	Size	Collar		CAPPED								
0	29.5	HQ	Steel Casing		NIL								
29.5	167	NQ	PVC Casing										
			Ground Water										
			Wedge										
			Drill Pad								LEVELED AND SUMP FILLED IN		
SIGNIFICANT INTERSECTIONS													

DOWNHOLE SURVEY (AMG)		
Depth	Bearing	Dip
0.0	-46.00	280.00
34.0	-46.00	279.00
64.0	-46.00	278.00
94.0	-45.75	278.00
124.0	-45.50	279.00
154.0	-45.00	279.50

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PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith
1.20	25	0.04		CVC	bx	32.60	93	0.04		BTS	Ln	89.30	104	0.13		BTS	Ln
1.80	83	0.02		CVC	bx	34.10	100	0.03		BTS	Ln	90.50	92	0.01		BTS	Ln
2.40	100	0.01		CVC	bx	35.90	78	0.09		BTS	Ln	91.50	100			BTS	Ln
3.00	83	0.02		CVC	bx	37.10	75	0.01		BTS	Ln	93.30	100	0.10		BTS	Ln
4.10	82	0.05		CVC	qpm	37.80	57	0.01		BTS	Ln	94.80	100	0.04		BTS	Ln
5.60	47	0.09		CVC	bx	38.80	80	0.02		BTS	Ln	97.10	100	0.06		BTS	Ln
6.40	88	0.02		CVC	bx	39.60	38	0.03		BTS	Ln	98.20	100	0.04		BTS	Ln
8.20	44	0.01		CVC	bx	40.90	85	0.06		BTS	Ln	100.10	95	0.02		BTS	Ln
8.80	33	0.02		CVC	bx	43.10	95	0.02		BTS	Ln	101.80	100	0.04		BTS	Ln
9.00	100	0.04		CVC	bx	45.50	104	0.08		BTS	cht	103.10	100	0.05		BTS	Ln
9.10	100			CVC	bx	47.50	110	0.03		BTS	Ln	105.00	89	0.04		BTS	Ln
10.30	25	0.05		CVC	bx	49.10	100	0.15		BTS	Ln	107.80	100	0.05		BTS	Ln
11.00	57			CVC	bx	50.90	94	0.11		BTS	Ln	109.60	94	0.08		BTS	Ln
11.70	14	0.05		CVC	bx	51.60	100	0.05		BTS	Ln	110.10	60	0.01		BTS	Ln
11.90	50	0.01		BTS	cht	52.50	106	0.04		BTS	Ln	111.00	89	0.03		BTS	Ln
12.40	100	0.07		BTS	cht	54.80	70	0.02		BTS	Ln	112.20	100	0.09		BTS	Ln
13.00	83	0.01		BTS	cht	56.40	112	0.03		BTS	Ln	112.90	86	0.29		BTS	Ln
13.60	117	0.03		BTS	cht	58.10	103	0.03		BTS	bx	114.90	95	0.05		BTS	Ln
15.30	97	0.03		BTS	slt	61.00	97	0.02		BTS	bx	118.00	100	0.07		BTS	Ln
15.90	100	0.01		BTS	cht	63.10	100	0.03		BTS	Ln	121.10	100	0.03		BTS	Ln
17.70	78	0.03		BTS	Ln	64.10	100	0.02		BTS	Ln	124.10	100	0.03		BTS	Ln
18.30	67	0.03		BTS	Ln	66.10	90	0.05		BTS	Ln	127.10	100	0.02		BTS	Ln
19.00	100	0.06		BTS	Ln	69.20	100	0.02		BTS	Ln	130.10	100	0.04		BTS	Ln
20.50	93	0.06		BTS	Ln	72.30	100	0.11		BTS	Ln	133.10	100	0.04		BTS	Ln
21.10	100	0.01		BTS	Ln	73.60	100	0.02		BTS	Ln	136.10	100	0.08		BTS	Ln
21.90	100	0.05		BTS	Ln	75.10	100	0.07		BTS	Ln	139.10	100	0.07		BTS	Ln
23.40	93	0.04		BTS	Ln	76.70	100	0.05		BTS	Ln	141.60	100	0.09		BTS	Ln
24.00	83	0.13		BTS	Ln	77.90	100			BTS	Ln	144.70	100	0.10		BTS	Ln
25.20	96	0.04		BTS	Ln	80.80	100	0.05		BTS	Ln	147.80	100	0.18		BTS	Ln
26.50	108	0.04		BTS	Ln	82.10	96	0.02		BTS	Ln	150.80	100	0.09		PR	Ln
28.00	100	0.04		BTS	Ln	85.10	97	0.03		BTS	Ln	153.90	100	0.16		PR	Ln
29.50	93	0.03		BTS	Ln	86.30	75	0.06		BTS	Ln	154.70	100	0.23		PR	Ln
31.10	78	0.04		BTS	Ln	88.10	94			BTS	Ln	156.20	107	0.14		PR	Ln

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PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	Depth	Rec %	Mag	SG	Formn	Lith	
159.30	94	0.05		PR	cht													
162.30	100	0.06		PR	Ln													
163.10	100	0.07		PR	Ln													
164.30	100	0.30		PR	Ln													
166.10	92	0.05		PR	Ln													
167.00	100	0.07		PR	Ln													

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PASMINCO EXPLORATION

Hole No.

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DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 150

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DESCRIPTION				GRAPHIC			STRUCTURES	
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Struct
0.00	3.60	BRECCIA buff, very coarse grained, poorly sorted matrix supported, lithic quartz phyrlic. distinct rock comprising abundant 5 to 50mm massive to laminated siliceous grey shale clasts in matrix containing abundant 1mm glassy phyrlic quartz, and silica-sericite altered pumice.. CONTACT: missing	highly oxidised, bleached and weathered andesites and volcaniclastics.					FAULT breccia
3.60	4.90	QUARTZ PHYRIC MASS FLOW buff, pumiceous quartz phyrlic. quartz phyrlic pumiceous volcaniclastic, similar to above interval without shale clasts.. CONTACT: missing						
4.90	11.90	BRECCIA buff, pumiceous quartz phyrlic. similar to above intervals with variable shale clast content.. CONTACT: faulted						FAULT breccia
11.90	13.80	CHERT buff, brecciated. zone of cherty alteration? intensely brittle fractured with infill oxidised clays. Minor patchy massive pyrite partly oxidised.. CONTACT: missing						FAULT breccia
13.80	14.50	SANDSTONE buff, pumiceous quartz phyrlic feldspar phyrlic. quartz-feldspar phyrlic pumiceous, rhyodacite lava, or volcaniclastic?. CONTACT: missing		MASSIVE abundant pyrite massive, irregular patches of massive pyrite and oxidised material. The pyrite occurs in two zones, the first appears to be a folded vein, the second appears to be as 2cm clasts.				FAULT R50 pug FAULT R45 pug FAULT R45 pug
14.50	15.50	SILTSTONE buff. zone of faulting with pyritic shale, massive siltstone and cherty breccia.. CONTACT: faulted						
15.50	17.70	CHERT red, fine grained. zone of red siliceous alteration with fine fractures filled with pyrite.. CONTACT: missing						
17.70	45.10	ANDESITE buff red, massive. massive bleached and oxidised, weathered andesite. Minor relict plagiocase and hornblende present.. CONTACT: faulted		STRANGER very minor sulphide in veinlets, Minor fine irregular pyrite veinlets, and trace coarse grained brown sphalerite filling open space.				BROKEN CORE

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PRSMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

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DESCRIPTION					GRAPHIC			STRUCTURES
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	
17.70	45.10	ANDESITE buff red, massive. massive bleached and oxidised, weathered andesite. Minor relict plagioclase and hornblende present.. CONTACT: faulted	highly oxidised. bleached and weathered andesites and volcaniclastics.					BROKEN CORE

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PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG


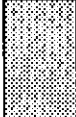


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DESCRIPTION					GRAPHIC			STRUCTURES
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	
17.70	45.10	ANDESITE buff red, massive. massive bleached and oxidised, weathered andesite. Minor relict plagiocase and hornblende present.. CONTACT: faulted	highly oxidised. bleached and weathered andesites and volcaniclastics.					
45.10	47.50	CHERT MIXED WITH ANDESITE green grey. zone of irregular mixed cherty siltstone and reworked andesite derived detritus.. CONTACT: conformable abrupt		STRINGER very minor sulphide in veinlets pyrite disseminated. Trace irregular veinlet brown sphalerite, and minor disseminated pyrite with trace sphalerite.				
47.50	56.80	ANDESITE buff, massive. zone of massive bleached rock possibly weathered bleached andesite.. CONTACT: missing		STRINGER very minor sulphide in veinlets pyrite disseminated. Trace irregular veinlets of grey pyritic sulphides.	50			
56.80	63.10	BRECCIA buff. zone of irregular angular clasts predominantly quartz phyric dacite/rhyolite in sericite altered pumiceous? matrix.. CONTACT: conformable abrupt	moderately oxidised. bleached volcanics with feldspars weathered to clays, and oxidised on joint faces.	STRINGER very minor sulphide in veinlets pyrite disseminated. Trace irregular veinlets of grey pyritic sulphides.	60			

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DESCRIPTION				GRAPHIC			STRUCTURES
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
63.10	109.80	<p>BRECCIA buff. zone of irregular angular clasts predominantly quartz phyric dacite/rhyolite in sericite altered pumiceous? matrix.. CONTACT: conformable abrupt</p> <p>RHYOLITE buff, massive, quartz phyric feldspar phyric. prominently quartz phyric rhyolite to dacite lava to lava breccia. Trace flow banding in part.. CONTACT: missing</p>	<p>moderately oxidised. bleached volcanics with feldspars weathered to clays, and oxidised on joint faces.</p>	<p>STRONGER very minor sulphide in veinlets pyrite disseminated. Trace irregular veinlets of grey pyritic sulphides.</p>	70		<p>PRIMARY FABRIC ABS</p>
					80		

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PASMINCO EXPLORATION
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DESCRIPTION

GRAPHIC

STRUCTURES

FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
63.10	109.80	RHYOLITE buff, massive, quartz phyric feldspar phyric. prominently quartz phyric rhyolite to dacite lava to lava breccia. Trace flow banding in part.. CONTACT: missing	moderately oxidised. bleached volcanics with feldspars weathered to clays. and oxidised on joint faces.					
109.80	129.60	ANDESITE grey green, peperitic. andesite peperite; andesite is massive to flowbanded, abundant leucoxene, green sericite altered feldspars and hornblends, mixed with (1 to 1) pale grey silicified siltstones. Andesites generally large 10 - 50cm blocks, distinctive texture.. CONTACT: gradational	moderately silicified, moderately sericitised, slightly carbonatised, mixed silicified siltstone, with waxy green sericite patches, and massive cream manganese carbonate and/or sericite altered andesite.	<p>VEIN minor sulphide in veins. Coarse grained pale rich brown sphalerite and galena in white quartz veins.</p> <p>VEIN minor sphalerite associated with alteration. irregular very fine grained, very pale coloured sphalerite spots, replacing feldspars in part, and apparently controlled in part by cleavage. Abundance deceptive as it is indistinguishable from sericite.</p> <p>VEIN minor sphalerite associated with alteration. Coarse grained rich pale brown sphalerite, chalcopyrite, and fine grained dark grey sphalerite/galena concentrated in cherty shale part of andesite peperite. Dark grey sulphide replacement is nucleated along fine fracture in chert, and is in turn replaced by coarse brown sphalerite.</p> <p>DISSEMINATED minor sphalerite associated with alteration. Zone of minor dark grey fine grained sphalerite/galena, concentrated in cherty shale part of andesite peperite, partially replaced by coarser grained pale sphalerite. Minor fine grained pale sphalerite replacing feldspars, and aligned in cleavage in andesite part of peperite. Abundance is deceptive as it is indistinguishable from sericite.</p>	110 120		Fault PRIMARY FABRIC R60 FIRST CLEAVAGE R60	

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PRASINCO EXPLORATION

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
129.80	129.60	<p>ANDESITE grey green, peperitic, andesite peperite: andesite is massive to flowbanded, abundant leucocene, green sercite altered feldspars and hornblends, mixed with (1 to 1) pale grey siltstones. Andesites generally large 10 - 50cm blocks, distinctive texture.. CONTACT: gradational</p>	<p>moderately siltified, slightly sercitised, mixed carbonatised, siltified siltstone, with waxy green sercite patches, and massive cream manganese carbonate</p>	<p>DISSEMINATED minor sphalerite associated with alteration. Zone of minor dark grey fine grained sphalerite/galena, concentrated in cherty shale part of andesite peperite, partially replaced by coars grained pale sphalerite. Minor fine grained pale sphalerite replacing feldspars, and alligned in cleavage in andesite part of peperite. Roundness is deceptive as it is indistinguishable from sercite.</p>	130	(V pattern)		
129.60	139.30	<p>ANDESITE green, massive, massive andesite, fragmental in part with minor peperite component.. CONTACT: faulted</p>	<p>moderately siltified, slightly sercitised, and lesser sediments, with cream manganese colouration in andesites. Feldspars altered to waxy green sercite. Does siltification post date manganese carbonate/sercite alteration?</p>	<p>VEIN very minor sulphide in veined. Trace coarse grained veined. pale sphalerite and chalcopirite, and diergy veined. Minor associated with alteration. fine grained dark grey sphalerite/galena associated with alteration. Does siltification post date manganese carbonate/sercite alteration? Infilling of brecciated andesite.</p>	140	(V pattern)		
139.30	140.20	<p>SANDSTONE green, massive upwards fining sequence. reworked andesite derived detritus.. CONTACT: conformable abrupt</p>						
140.20	141.20	<p>BRECCIA MIXED WITH ANDESITE green, irregular zone of mixed andesite clasts and siltstone, reworked rather than peperitic.. CONTACT: conformable abrupt</p>						
141.20	150.70	<p>ANDESITE grey green, classic andesite autobreccia.. CONTACT: conformable abrupt</p>	<p>slightly carbonatised, minor clasts and infill of fine grained cream coloured manganese carbonate.</p>	<p>VEIN very minor pyrite in pyrite interstitial to carbonate altered fragmental andesite.</p>				

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DESCRIPTION				GRAPHIC			STRUCTURES
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
141.20	150.70	ANDESITE grey green. classic andesite autobreccia.. CONTACT: conformable abrupt	slightly carbonatised. minor clasts and infill of fine grained cream coloured manganoan carbonate.				
150.70	152.80	RHYOLITE red, massive, quartz phyric feldspar phyric. prominently quartz phyric (Pinnacles) rhyolite.. CONTACT: conformable abrupt	slightly silicified, slightly carbonatised. carbonate altered feldspars.				
152.80	153.40	SANDSTONE grey, massive. irregular band of fine grained reworked andesite?. CONTACT: conformable abrupt					
153.40	158.50	RHYOLITE red, massive, quartz phyric feldspar phyric. typical Pinnacles rhyolite.. CONTACT: conformable abrupt					
158.50	159.50	CHERT pale grey, massive. cherty siltstone with minor carbonate pseudo clast.. CONTACT: conformable abrupt					
159.50	162.50	RHYOLITE red, massive, quartz phyric feldspar phyric. typical Pinnacles Rhyolite.. CONTACT: conformable abrupt					
162.50	164.90	ANDESITE pale green, massive. massive very fine grained mafic pale green, with minor fuchsite.. CONTACT: faulted	moderately chloritised, slightly fuchsitic, chlorite - fuchsite altered andesite.				
164.90	167.00	RHYOLITE grey, massive, quartz phyric feldspar phyric. quartz phyric rhyolite.	slightly silicified, slightly carbonatised. carbonate altered feldspars.				

VEIN R35

FALLT breccia

FALLT breccia

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